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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/550,629	09/21/2005	Lawrence R. Green	75196-321978	4261	
25764 FAEGRE & BE	7590 06/12/200 ENSON LLP	EXAMINER			
PATENT DOC		YANG, NELSON C			
2200 WELLS FARGO CENTER 90 SOUTH SEVENTH STREET			ART UNIT	PAPER NUMBER	
MINNEAPOLI	MINNEAPOLIS, MN 55402-3901			1641	
			MAIL DATE	DELIVERY MODE	
			06/12/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/550,629	GREEN, LAWRENCE R.					
Office Action Summary	Examiner	Art Unit					
	Nelson Yang	1641					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>11 Ma</u>	arch 2008.						
	action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>19-32,34-36 and 38-44</u> is/are pending	in the application.						
4a) Of the above claim(s) <u>19-31 and 34-36</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>32 and 38-44</u> is/are rejected.							
7) Claim(s) is/are objected to.	<u> </u>						
8) Claim(s) are subject to restriction and/or							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>21 September 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	-					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	ite atent Application						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

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DETAILED ACTION

Response to Amendment

- 1. Applicant's amendment of claim 32 and cancellation of claim 33 is acknowledged and has been entered.
- 2. Claims 19-32 34-36, 38-44 are pending. Claims 34-36, 38 are withdrawn.
- 3. Claims 32, 39-44 are under examination.

Claim Objections

4. Claim 38 was withdrawn in the response filed September 20, 2007 to the election of species requirement mailed August 24, 2007, but is incorrectly listed as (Presently Presented).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 32, 39, 40, 42, 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tuyl [US 2004/0102742] in view of Spivey et al. [US 5,886,353].
- 7. With respect to claim 32, Tuyl teaches an optical device comprising a CCD camera, lenses for focusing images on the CCD camera, and motorized mechanisms for adjusting the focus (para. 0066). Tuyl further teaches source fluid containment structures such as microtiter plates (para. 0035) and moveable stage for positioning the source fluid containment structures

(para. 0036), and a cooling unit (para. 0188). Tuyl fails to teach creating an average interpolation function for producing interpolated signal values for the pixel.

Spivey et al., however, teach processing calibration images for defective pixels using an interpolation function involving interpolation of neighboring pixels (column 15, lines 22-43), as well as averaging the pixel values in the calibration image.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used an interpolation function on pixels in the calibration image of Tuyl, as suggested by Spivey et al., in order to correct defective pixels in the image.

- 8. With respect to claims 39, 42, Tuyl teaches a CCD camera (para. 0066).
- 9. With respect to claim 40, Tuyl teaches that the well plates may be transparent or translucent (para. 0138).
- 10. With respect to claim 43, Tuyl teaches that the cooling unit may comprise a Peltier junction (para. 0188).
- 11. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tuyl [US 2004/0102742] in view of Spivey et al. [US 5,886,353], as applied to claim 32 above, and further in view of Bloomfield et al. [US 4,501,495]

With respect to claim 41, Tuyl teaches that the stage may comprise a handling device used to hold and align well plates in a precise manner (para. 0055), but fail to teach that the stage comprises a depression for aligning a slide or microtiter well plate that fits into the depression.

Bloomfield et al., however, teach stages having a rectangular depression for mounting slides (fig.1), and further teach that the stages are durable, reliable, and easy to service, while providing good optical alignment (column 1, lines 25-40).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used one of the stages of Bloomfield et al. comprising a rectangular depression for mounting and alignment of slides in the device of Tuyl, particular since the stages are durable, reliable, and easy to service, while providing good optical alignment.

Response to Arguments

Applicant's arguments, see p. 6-7, filed March 11, 2008, with respect to the rejection(s) of claim(s) 32, 33, 38-44 under 35 U.S.C. 102(e) as being anticipated by Tuyl [US 2004/0102742] and under 35 U.S.C. 103(a) as being unpatentable over Tuyl [US 2004/0102742] in view of Engelhardt et al. [US 2002/0179828] have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Spivey et al. [US 5,886,353].

Conclusion

- 13. No claims are allowed.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson Yang whose telephone number is (571)272-0826. The examiner can normally be reached on 8:30-5:00.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (571)272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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16.

Application Information Retrieval (PAIR) system. Status information for published applications

Information regarding the status of an application may be obtained from the Patent

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nelson Yang/

Primary Examiner, Art Unit 1641